Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

EBiSC
European Bank for induced pluripotent Stem Cells

ECACC Catalogue No: 66540612

Cell Line Name	PFIZi027-A	Batch Number	M001
Donor ID	OD021		
Disease Association	Dravet Syndrome	Phenotype of Donor	Affected
Tissue of Origin	PBMC (Erythroblast)	Sex	Female
Reprogramming Method	Non-integrating Sendai Virus (POU5F1, SOX2, KLF4, MYC)		
Passage Number	Passage 12	Cell number / vial	$1.7x10^6$
Culture Matrix	Geltrex / Matrigel	Culture Medium	mTeSR™1
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	40% FBS*/ 50% medium / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 2 wells of a 6-well plate or per $10cm^2$ Refer to cell line user protocols for further guidance at www.EBiSC.org		
Additional Comments	Typical recovery after thaw, typical growth to confluency		
Associated Publications	N/A		

Please see www.EBiSC.org for further information on Quality Control applied to lines released by EBiSC. The following standard testing criteria have been determined within EBiSC, prior to release of this product:

Test	Assay	Acceptance Criteria	Result
Sterility	Inoculation for microbiological growth	Not Detected	Pass
	qPCR for Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Pass
Cell Line Identity	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Profile match to donor
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC colonies with low differentiation levels

www.EBiSC.org

In case of queries, please contact culturecollections.technical@phe.gov.uk. European Collection of Authenticated Cell Cultures (ECACC), Culture Collections, Public Health England, Tel: +44 (0) 1980 612684

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Test	Assay	Acceptance Criteria	Result
Phenotype	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass
Differentiation Potential	Spontaneous EB differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm: Not detected Mesoderm: Detected Ectoderm : Detected

Additional cell line characteristics have been determined by original reprogramming centres and have not been independently verified by EBiSC. Historical cell line data displayed here is accurate according to data provided by depositors on 23-OCT-2017

Test	Assay	Result
Genetic Defect	Affymetrix 750K SNP Analysis	DCX gene deletion at Xq23 (coordinates 110,553,705 – 110,640,810) confirmed
Karyotype	G-banding 20 metaphase spreads	16/20 diploid female karyotype (46,XX) 1/20 48,XX,+1,+11 1/20 46,XX,del(8)(p23) 1/20 45,XX,-12 1/20 44,XX,-19,-20
	Affymetrix 750K SNP Analysis	Xq23 deletion only (DCX Deletion as expected)
Clearance of Reprogramming Factors	qPCR for Sendai Backbone	Not detected
Differentiation Potential	Directed differentiation and qPCR for endoderm markers	Endoderm: Detected

The following guidance can be found in the Instructions for Use	
Intended use	**Expiry Date**
Product Format	**Recommended storage conditions**
Volume	**Hazardous Information**

Approved CoA **Signature** Jane Embury **Date** 09 mar 2018

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